

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321253

Luminaire Tested: **GAN-SA9C-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46482 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

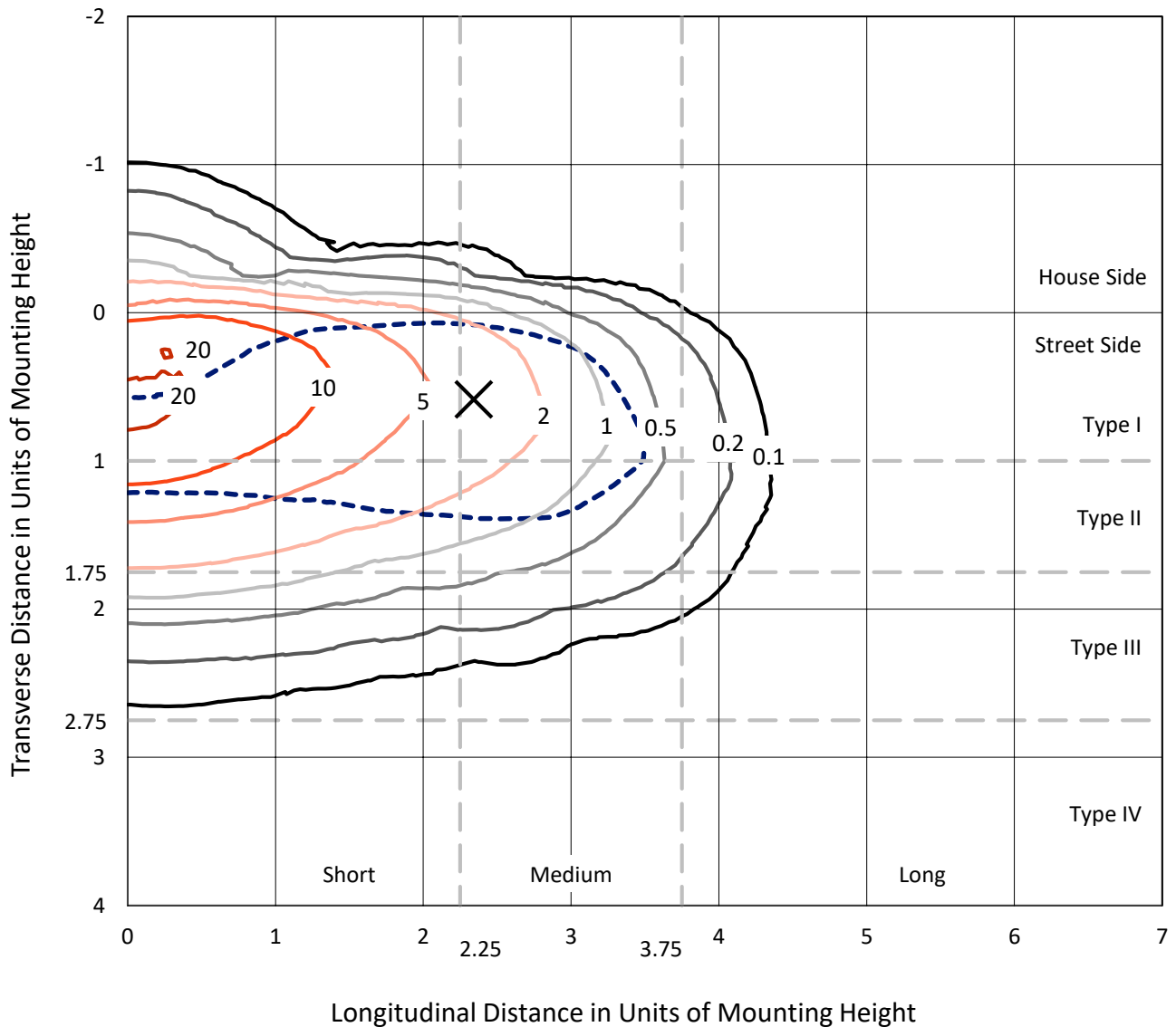
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

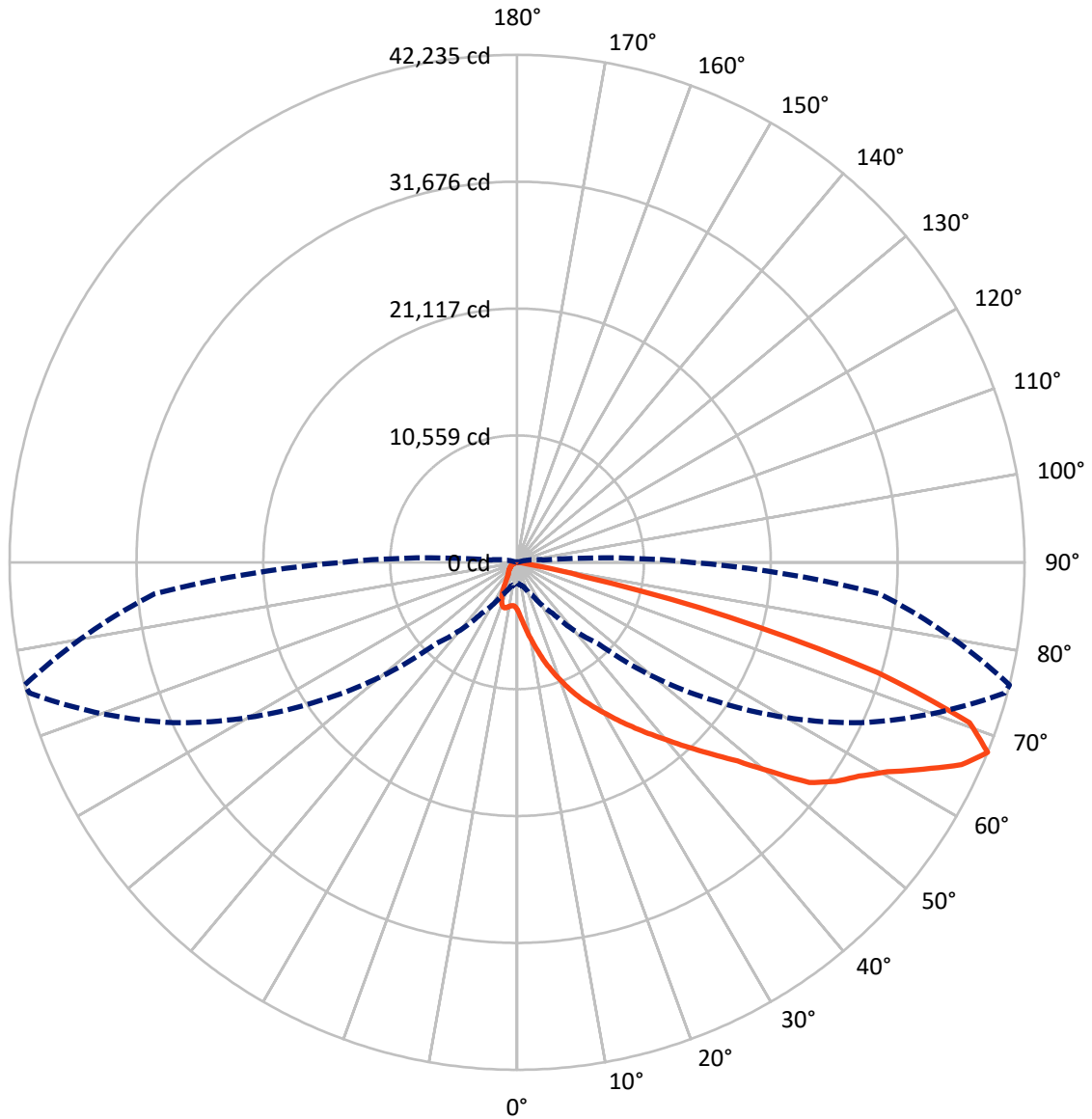
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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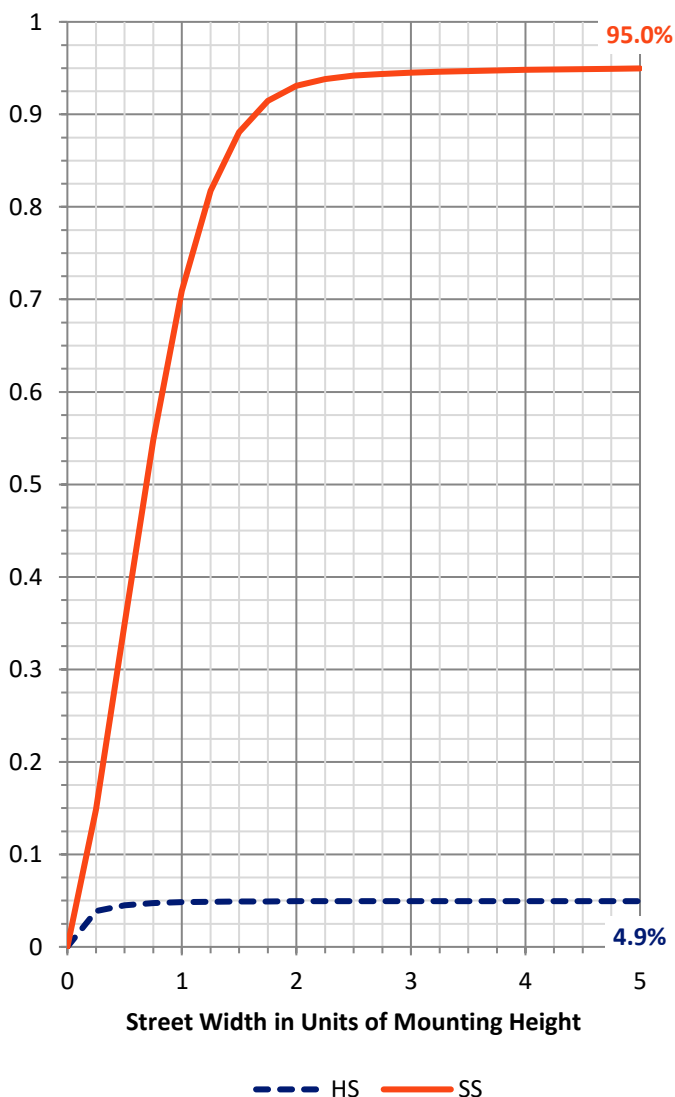
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2308.2	0.0	2308.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	44173.8	0.0	44173.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	46482.0	0.0	46482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.3	1.1
10°-20°	1943.7	4.2
20°-30°	3954.7	8.5
30°-40°	6864.1	14.8
40°-50°	9698.0	20.9
50°-60°	10998.0	23.7
60°-70°	9121.8	19.6
70°-80°	3304.2	7.1
80°-90°	107.1	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	46482.0	100.0
0°-180°	46482.0	100.0

**Coefficient of Utilization**



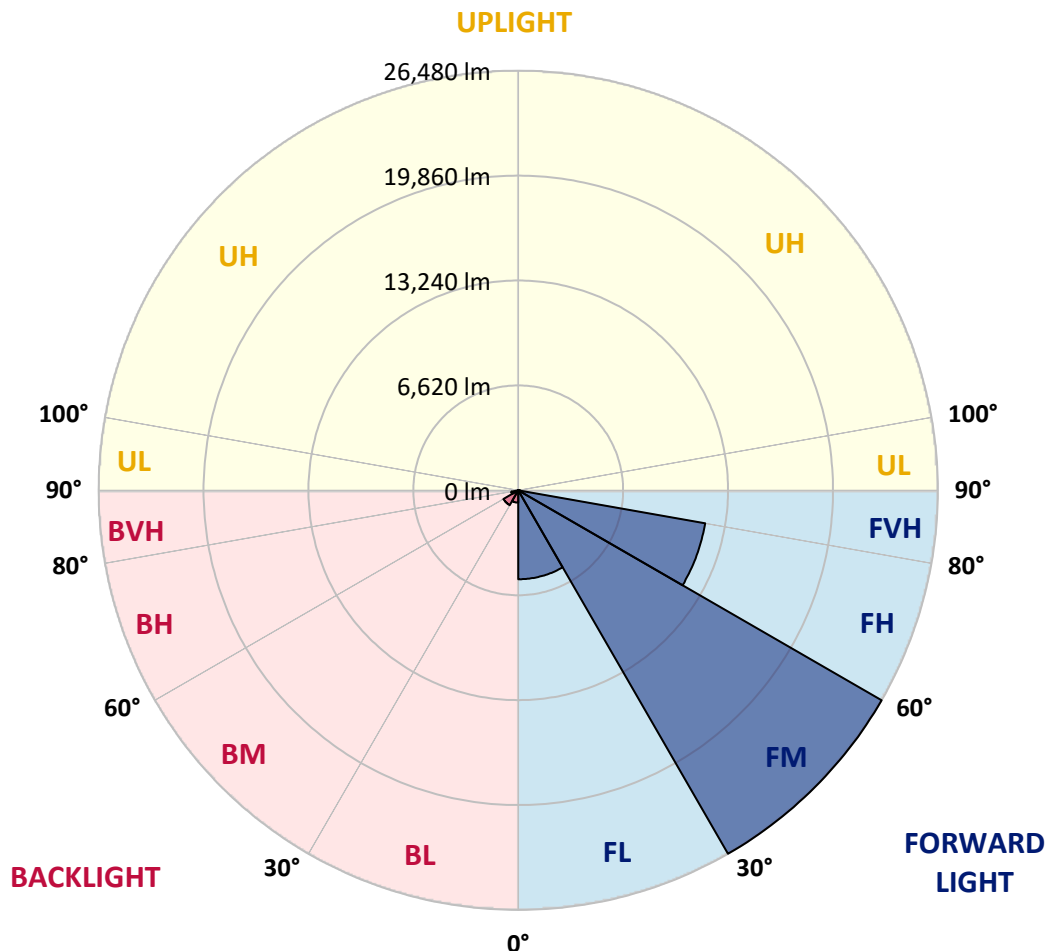
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5610.2	12.1			
FM (30°-60°)	26479.9	57.0			
FH (60°-80°)	11980.0	25.8			G4/12000
FVH (80°-90°)	103.8	0.2			G2/225
BL (0°-30°)	778.4	1.7	B2/1000		
BM (30°-60°)	1080.3	2.3	B2/2500		
BH (60°-80°)	446.1	1.0	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0
2.5°	5886.0	5753.6	5784.2	5698.6	5543.9	5226.1	4955.3	4698.6	4399.2	4389.1	4142.6
5°	7937.0	7824.9	7810.7	7637.6	7356.5	6816.8	6291.3	5692.5	5024.5	4975.6	4452.2
7.5°	9798.5	9708.9	9676.3	9470.6	8947.2	8421.7	7737.4	6857.5	5812.7	5723.1	4869.7
10°	11228.2	11185.5	11193.6	11047.0	10598.9	10110.1	9211.9	8089.7	6706.8	6568.3	5370.7
12.5°	12311.8	12321.9	12395.3	12305.6	12055.1	11692.6	10733.3	9403.4	7696.6	7507.2	5943.0
15°	13108.1	13159.0	13293.4	13405.5	13387.1	13073.5	12193.6	10737.4	8747.6	8537.8	6580.5
17.5°	13623.4	13680.4	13875.9	14124.4	14352.5	14279.2	13603.0	12024.6	9810.7	9568.3	7262.8
20°	14075.5	14142.7	14352.5	14680.4	15106.1	15197.7	14753.7	13273.1	10871.8	10576.5	7967.5
22.5°	15055.2	15053.1	15181.4	15372.9	15778.2	16014.4	15733.4	14431.9	11920.7	11613.2	8686.5
25°	16827.1	16759.9	16715.1	16564.3	16654.0	16800.6	16643.8	15515.5	12975.7	12664.1	9415.6
27.5°	18933.0	18973.7	18611.2	18205.9	17892.3	17741.6	17484.9	16519.5	13990.0	13647.8	10128.4
30°	21155.0	21167.3	20739.6	20222.2	19531.8	18959.5	18515.5	17478.8	15032.8	14660.0	10820.9
32.5°	23159.1	23079.7	22656.1	21951.4	21079.7	20436.1	19513.5	18550.1	16136.6	15776.2	11590.8
35°	24747.7	24654.1	24138.8	23497.2	22592.9	21945.3	20835.3	19619.4	17297.6	16945.2	12362.7
37.5°	25908.7	25798.7	25269.1	24609.3	23829.2	23452.4	22368.9	20782.3	18564.4	18185.5	13175.3
40°	26311.9	26216.2	25884.2	25401.5	24774.2	24688.7	23996.2	22120.4	19943.2	19539.9	14095.9
42.5°	26071.6	25977.9	25859.8	25696.8	25436.1	25517.6	25531.9	23645.9	21474.8	21077.6	15112.2
45°	25118.4	25034.9	25157.1	25395.4	25719.2	26122.5	26933.1	25285.4	23185.6	22762.0	16287.4
47.5°	23715.1	23654.0	23992.1	24586.8	25533.9	26645.9	28214.2	27008.5	25106.2	24713.1	17753.8
50°	21719.2	21709.0	22385.2	23470.7	24927.0	26898.5	29538.0	28967.8	27774.3	27360.8	19792.5
52.5°	18611.2	18631.6	19961.5	21698.8	23861.8	26727.4	30389.4	31485.1	30878.2	30448.4	21558.3
55°	15651.9	15774.1	16717.1	19222.2	22228.4	26092.0	30682.6	32660.3	32591.0	32183.7	22540.0
57.5°	12753.7	12975.7	13884.1	16224.2	19843.4	24627.6	30521.7	33169.4	33866.0	33554.4	23835.3
60°	9613.1	9715.0	10761.8	12949.2	16782.3	21955.5	29354.7	33446.4	35609.4	35393.5	25715.2
62.5°	6116.2	6370.7	7299.5	9409.5	13067.4	18244.6	27387.3	33442.3	37790.7	37908.8	28140.9
65°	3222.0	3519.4	4012.3	5831.0	8979.7	14100.0	24428.0	33128.7	40466.9	40631.8	30037.0
67.5°	1737.3	1822.8	2083.5	3026.5	5207.8	9552.0	20079.7	31580.8	42016.8	42234.7	30301.8
70°	1270.9	1317.7	1415.5	1674.2	2621.2	5547.9	14651.9	28071.6	40018.8	39937.3	26922.9
72.5°	975.6	1048.9	1122.2	1226.1	1507.1	2961.3	9122.3	21981.9	31931.1	31393.4	20124.5
75°	769.9	782.1	886.0	979.6	1130.4	1686.4	4051.0	12802.6	19489.0	18216.1	10436.0
77.5°	615.1	623.2	684.3	765.8	908.4	1108.0	1254.6	5036.7	6222.1	5552.0	2264.8
80°	364.6	384.9	509.2	590.6	753.6	698.6	458.3	1093.7	971.5	879.8	380.9
82.5°	203.7	220.0	287.2	466.4	525.5	334.0	228.1	295.3	228.1	222.0	107.9
85°	0.0	10.2	185.3	289.2	213.9	73.3	95.7	97.8	67.2	63.1	42.8
87.5°	0.0	0.0	57.0	55.0	8.1	12.2	22.4	32.6	26.5	26.5	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0
2.5°	4020.4	3910.4	3702.7	3499.0	3327.9	3187.4	3061.1	3010.2	2969.5	2963.4	2930.8
5°	4199.6	3977.6	3580.5	3254.6	3036.7	2881.9	2749.5	2668.1	2604.9	2580.5	2558.1
7.5°	4470.5	4134.5	3564.2	3189.4	2928.8	2668.1	2423.7	2158.9	1993.9	1930.8	1894.1
10°	4800.5	4342.2	3625.3	3171.1	2714.9	2165.0	1759.7	1423.6	1287.2	1242.4	1230.2
12.5°	5185.4	4600.9	3731.2	3057.1	2258.7	1537.7	1213.9	1099.8	1069.3	1055.0	1055.0
15°	5627.4	4884.0	3806.6	2727.1	1670.1	1162.9	1050.9	998.0	965.4	947.1	949.1
17.5°	6079.5	5161.0	3769.9	2248.5	1232.2	1034.6	951.1	894.1	849.3	831.0	826.9
20°	6535.7	5417.6	3566.2	1674.2	1042.8	938.9	845.2	782.1	737.3	718.9	714.9
22.5°	7008.2	5635.5	3207.8	1228.1	936.9	833.0	741.4	678.2	635.4	619.2	611.0
25°	7468.5	5812.7	2706.8	993.9	837.1	733.2	645.6	586.6	547.9	531.6	529.5
27.5°	7898.3	5924.7	2126.3	877.8	749.5	643.6	564.2	511.2	478.6	466.4	464.4
30°	8285.2	5934.9	1572.3	792.3	672.1	566.2	492.9	446.0	417.5	405.3	401.2
32.5°	8676.3	5849.4	1144.6	714.9	600.8	499.0	427.7	391.0	370.7	360.5	360.5
35°	9044.9	5651.8	892.1	647.7	531.6	433.8	376.8	350.3	338.1	327.9	327.9
37.5°	9405.4	5368.7	757.6	588.6	466.4	378.8	332.0	315.7	305.5	295.3	295.3
40°	9772.0	5012.3	688.4	533.6	413.4	336.1	295.3	281.1	270.9	262.7	260.7
42.5°	10222.1	4600.9	643.6	482.7	366.6	297.4	260.7	244.4	236.3	228.1	224.0
45°	10743.5	4246.5	606.9	431.8	327.9	264.8	226.1	209.8	197.6	187.4	185.3
47.5°	11495.0	3989.9	558.1	376.8	291.2	230.1	195.5	177.2	158.9	148.7	146.6
50°	12454.3	3778.0	494.9	327.9	254.6	195.5	162.9	140.5	124.2	114.1	114.1
52.5°	12930.9	3501.1	437.9	285.1	213.9	165.0	132.4	105.9	97.8	87.6	87.6
55°	13122.4	3289.2	380.9	242.4	177.2	136.5	103.9	81.5	75.4	69.2	67.2
57.5°	13660.0	3228.1	332.0	205.7	146.6	107.9	79.4	61.1	57.0	48.9	48.9
60°	14525.6	3258.7	287.2	175.2	118.1	83.5	59.1	46.8	42.8	34.6	34.6
62.5°	15460.5	3220.0	242.4	150.7	91.7	61.1	40.7	34.6	34.6	20.4	18.3
65°	15639.7	2867.7	207.7	124.2	71.3	44.8	26.5	22.4	30.6	4.1	0.0
67.5°	14515.4	2224.1	179.2	95.7	53.0	34.6	20.4	10.2	26.5	0.0	0.0
70°	11607.1	1413.5	144.6	69.2	40.7	28.5	16.3	4.1	20.4	0.0	0.0
72.5°	8207.8	820.8	114.1	48.9	34.6	22.4	12.2	0.0	12.2	0.0	0.0
75°	4150.8	437.9	71.3	36.7	26.5	16.3	8.1	0.0	2.0	0.0	0.0
77.5°	898.2	203.7	44.8	26.5	18.3	10.2	4.1	0.0	0.0	0.0	0.0
80°	195.5	89.6	28.5	16.3	10.2	6.1	0.0	0.0	0.0	0.0	0.0
82.5°	71.3	46.8	14.3	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.7	24.4	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	8.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)